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(71) Applicant and

(72) Inventor: SCHMIDT, Christian [DE/CH]; Place de la Croix-Blanche 7, CH-1066 Epalinges (CH).

(74) Agents: ENGELHARD, Markus et al.; Boehmert & Boehmert, Hollerallee 32, 28209 Bremen (DE).

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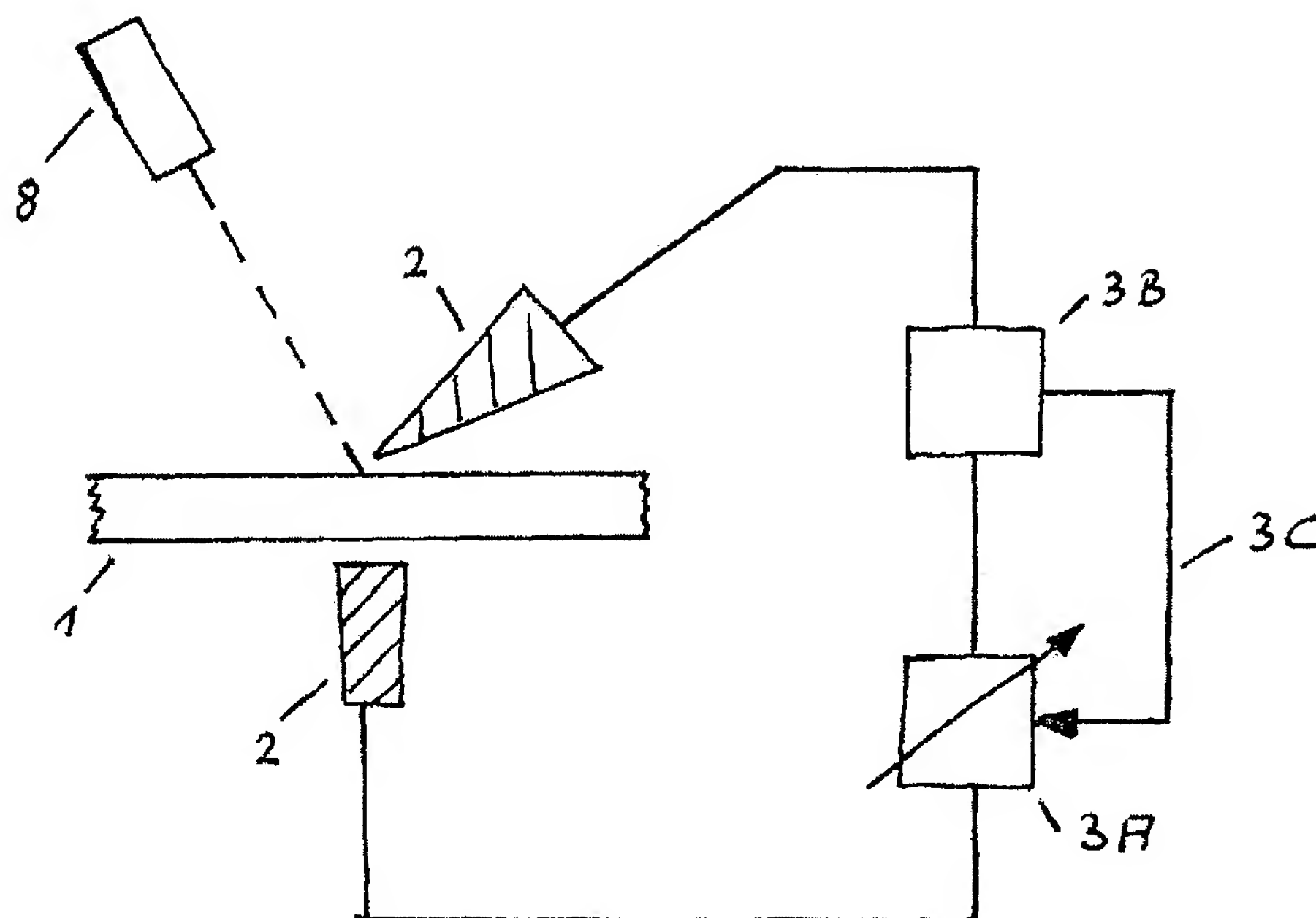
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(54) Title: MANUFACTURING AND USE OF MICROPERFORATED SUBSTRATES



(57) Abstract: This invention relates to methods and devices for the production of micro-structured substrates and their application in natural sciences and technology, in particular in analysis and detection systems based on artificial and biological lipid membranes. The structure is preferably a hole or a cavity or channel and is obtained by spark perforation. Energy, preferably heat, is applied to the region to be structured so as to reduce the amplitude of voltage required and/or soften the material. The electrical parameters of the spark perforation are feedback-controlled.

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